

NEW MEXICO OIL FIELD
MAIN OFFICE OCC

Form 11-12

MULTI-1957 SEP 2 9 AM 8:43

Pool Blinbry Gas Blinbry Lea, New Mexico
Initial 8-3/8-9 1957
Company Shell Oil Company Argo A 5
Unit 7 Sec. 22 Twp. -21-S Rge. -37-E El Paso Natural Gas Company
Casing 5 1/2" Wt. 15.5# I.D. - G.S. 6535'
Tubing 2" Wt. 4.7# I.D. - G.S. 6602'
Gas Pay: From 5498' To 5628' 5498 71x0.727 3997 13.2
Producing Thru: Casing X G. O. Dual
Date of Completion: 11-7-52 6447 101 deg. F

Tested Through (Prover) (Choke)

Flange

Flow Data

No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. In.	Temp. F	Rate of Flow bbls./hr.
SI						1717/1720/1722 24/48/72
1.	4	1.750	531	18.92	70	1420 24
2.	4	1.750	546	34.81	68	1287 24
3.	4	1.750	552	46.24	69	1184 24
4.	4	1.750	563	61.62	72	1041 24
5.						

No.	Coefficient (Flg.) (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Rate of Flow bbls./hr.	Prod. bbls./hr.
1.	19.27	101.46	.9905	.9325	1.062 1.917 33.12
2.	19.27	139.49	.9924	.9325	1.062 2.642 *
3.	19.27	161.64	.9915	.9325	1.066 3.070 *
4.	19.27	188.40	.9887	.9325	1.064 3.561 49.07
5.					

Gas Liquid Hydrocarbon Ratio 66.650
Gravity of Liquid Hydrocarbons 66.7
 F_c 1.758 $(1-e^{-S})$ 0.240 1735.2 3010.9

No.	P_t (psia)	P_t^2	F_c^2	$(F_c^2)^2$	P_w
1.	1433.2	2054.1	3.37	11.36	2.73 2056.8 954.1 1435.5 82.7
2.	1380.2	1600.5	4.64	21.53	5.17 1695.7 1315.2 1302.1 75.0
3.	1197.2	1433.3	5.40	29.16	7.00 1440.0 1570.9 1200.0 69.2
4.	1054.2	1111.3	6.26	39.19	9.41 1120.7 1890.2 1060.0 61.1
5.					

Absolute Potential: 5,100 0.784

COMPANY Shell Oil Company
ADDRESS Box 1957, Hobbs, New Mexico
AGENT and TITLE P. A. Dennis, Division Exploitation Engineer Original Signed by P. A. Dennis
WITNESSED Smith & Blumer
COMPANY El Paso Natural Gas Company

*An average GOR was calculated from data obtained on the 1st and 4th rates of flow. Oil production during the 2nd and 3rd rates of flow was incorrect due to another well producing into the same tank at that time.

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

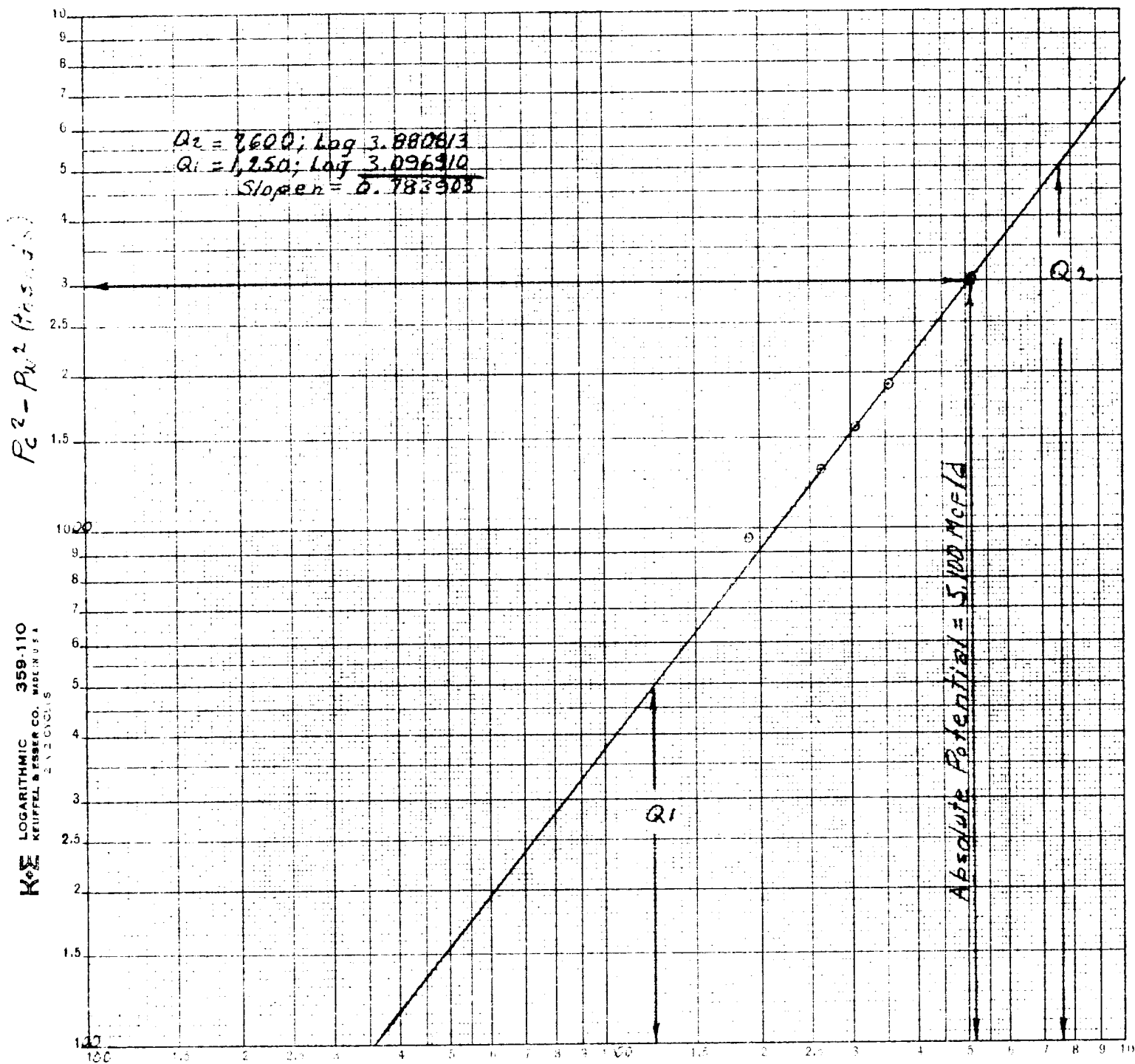
F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

ILLEGIBLE

Shell Oil Co.
Argo "A" No. 5 Blending
F-22-21-31 Lea Co. N. Mex.
8-3-57



$Q - \text{McFD} - 15.025 \text{ PSIA @ } 60^\circ\text{F}$